

The schematic diagram illustrates a liquid supply system for a maskless exposure apparatus. The system includes several main components:

- Power Sources:** A COMMERCIAL POWER SOURCE (100A) and an UNINTERRUPTIBLE POWER SOURCE (100B). The commercial source provides power to the LIQUID SUPPLY SECTION (11), MASK-DRIVING UNIT, and SUBSTRATE-DRIVING UNIT. The uninterruptible source provides backup power to the LIQUID SUPPLY SECTION.
- Liquid Supply and Recovery Sections:**
 - LIQUID SUPPLY SECTION (11):** Receives liquid from a reservoir (90) via a supply line (12(12A)). It includes a pressure-adjusting liquid recovery section (16(16A)) and a pressure-adjusting liquid supply section (24(24A)).
 - FIRST LIQUID RECOVERY SECTION (21):** Recovers liquid from the substrate stage (PST) via a recovery line (42(42A)).
 - SECOND LIQUID RECOVERY SECTION (22(22A)):** Recovers liquid from the substrate stage (PST) via another recovery line (42(42B)).
- Masks and Stages:**
 - Mask (M):** Positioned above the substrate stage (PST).
 - Substrate Stage (PST):** Holds the substrate (SB) and is driven by the SUBSTRATE-DRIVING UNIT.
 - Mask Stage (MST):** Holds the mask (M) and is driven by the MASK-DRIVING UNIT.
- Control Unit:** Manages the operation of the liquid supply sections, mask stage, and substrate stage.
- Other Components:** Includes a PRESSURE-ADJUSTING LIQUID RECOVERY SECTION (92), a PRESSURE-ADJUSTING LIQUID SUPPLY SECTION (91), and various valves and pipes (e.g., 14(14A), 24(24A), 44(44A), 70A, 70B, 14(14B), 24(24B), 44(44B), 70C).

The diagram shows the flow of liquid from the supply sections through the mask and substrate stages, and its subsequent recovery into the recovery sections. The system is designed to maintain precise liquid levels and pressures during the exposure process.

Fig. 2

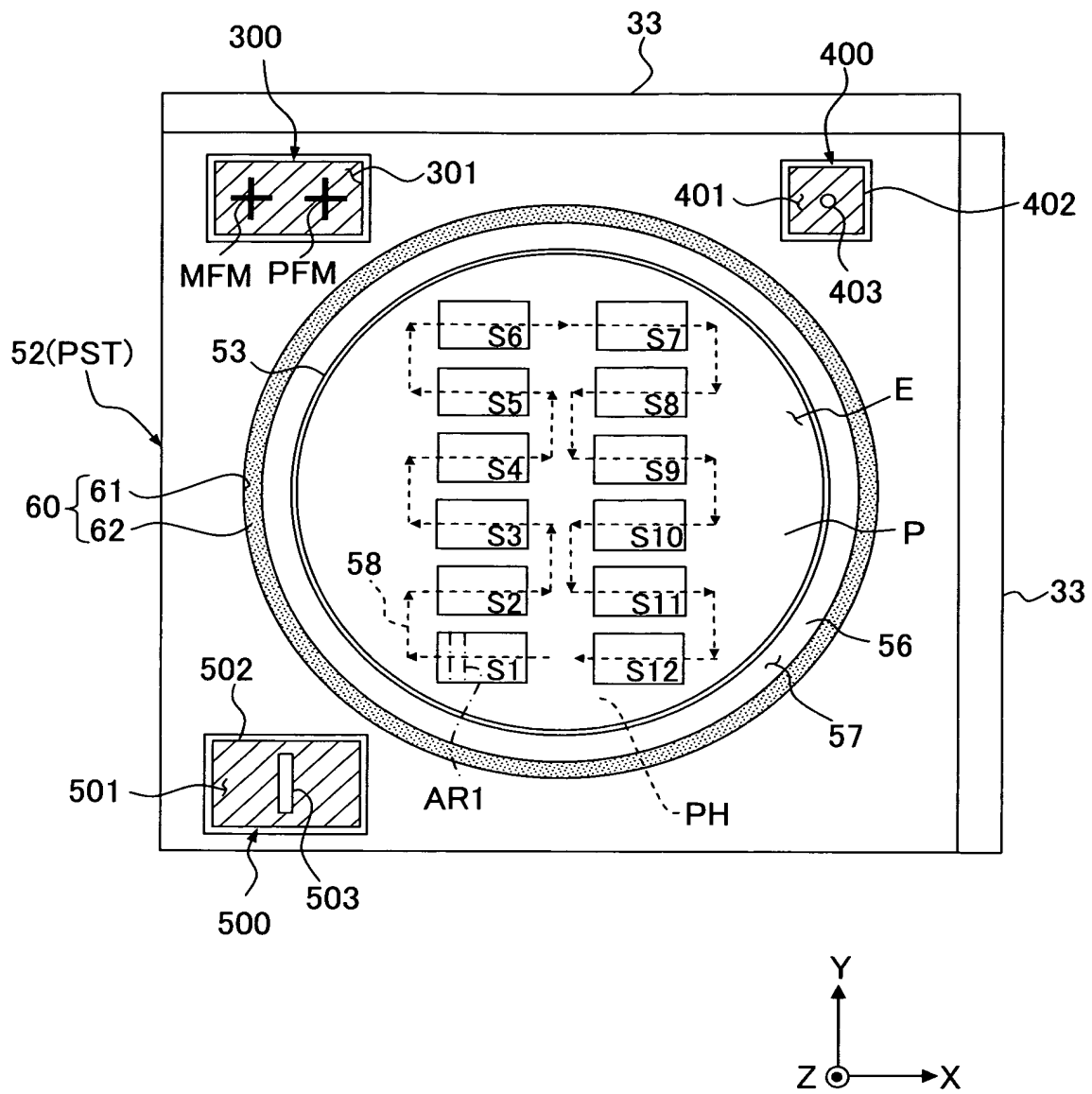
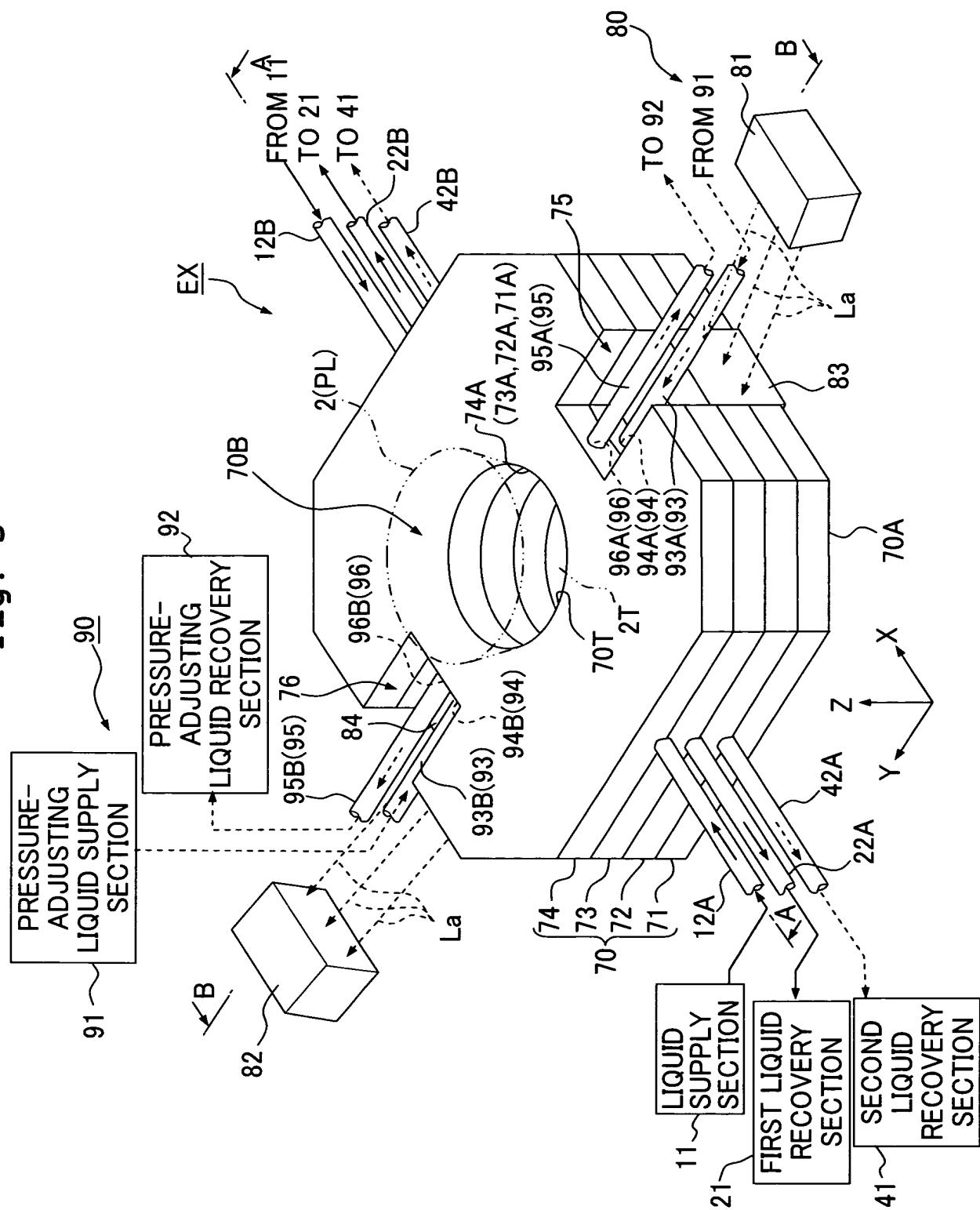


Fig. 3



[illegible]

Fig. 7

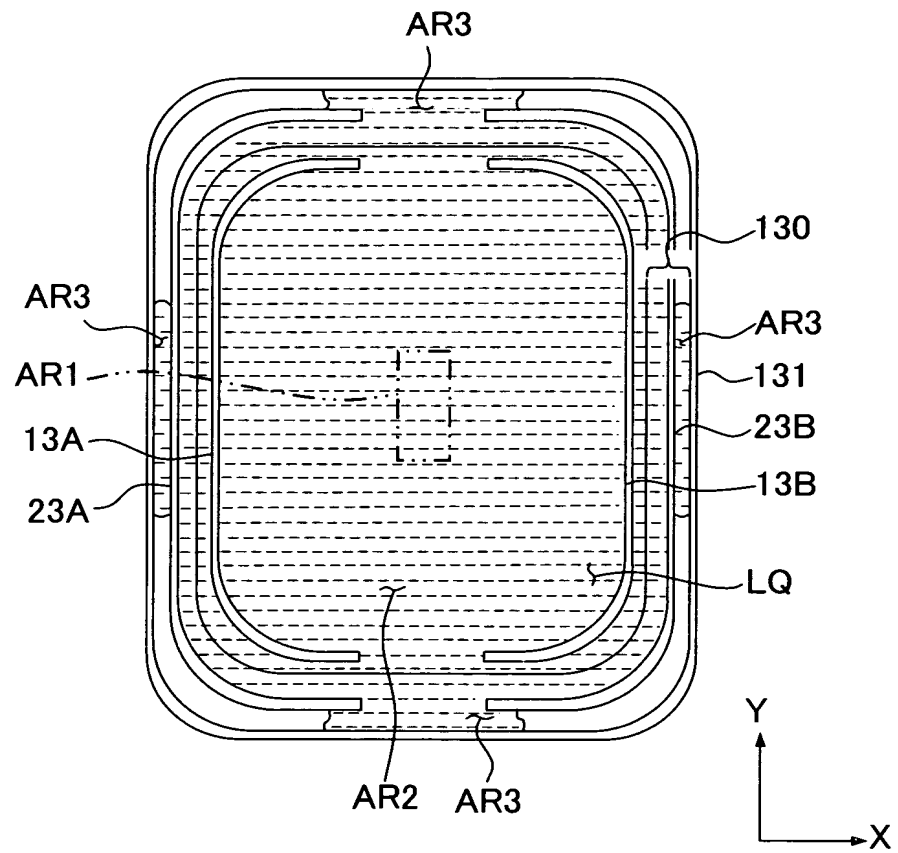


Fig. 8

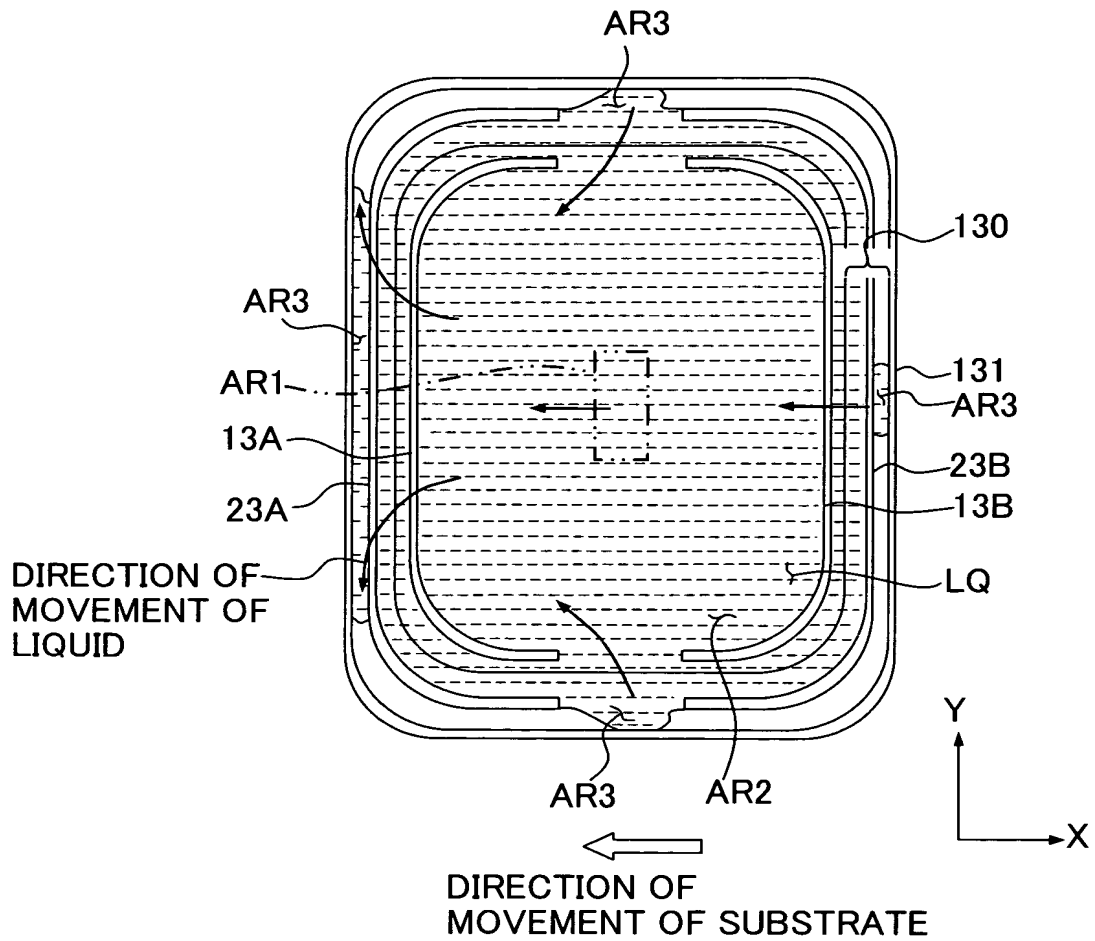


Fig. 9

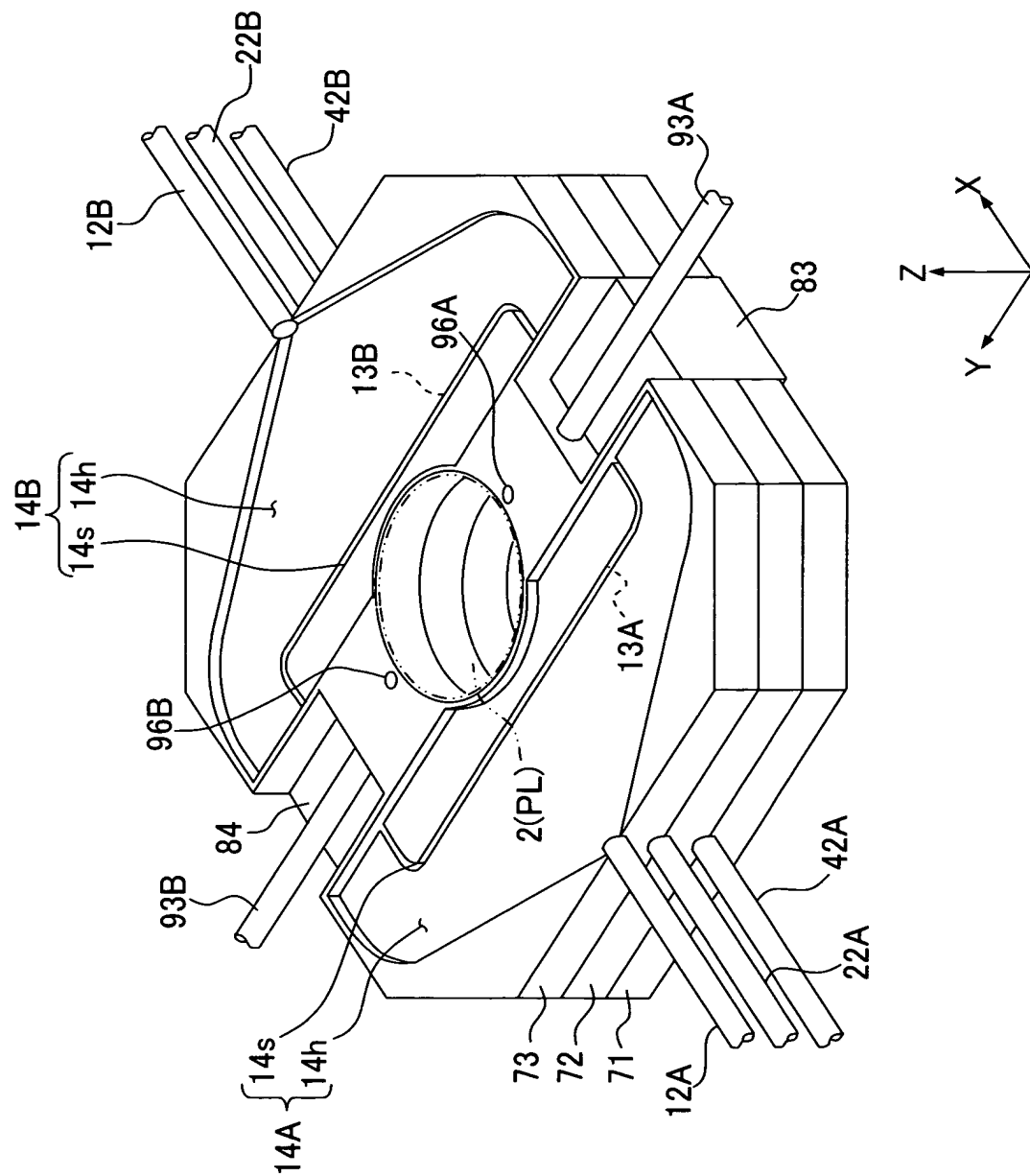


Fig. 10

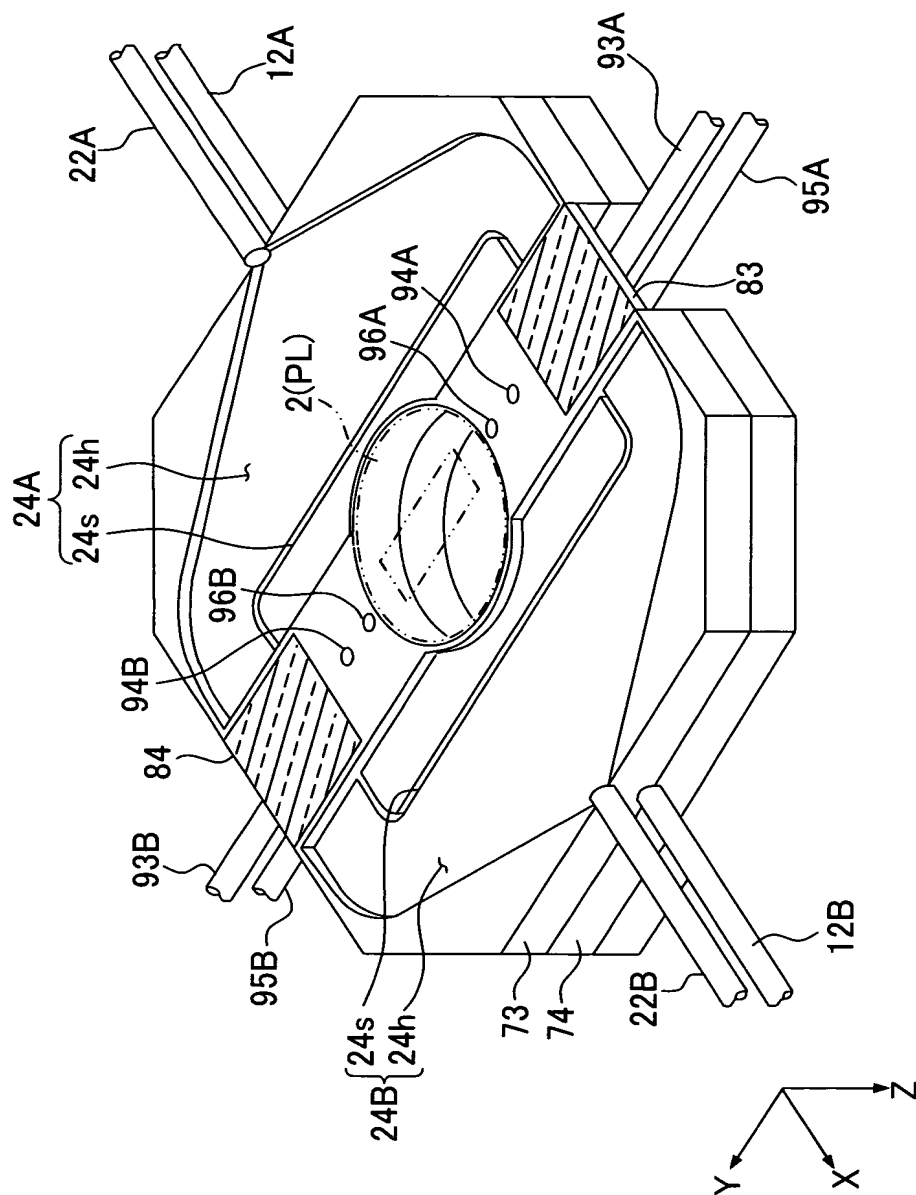


Fig. 11

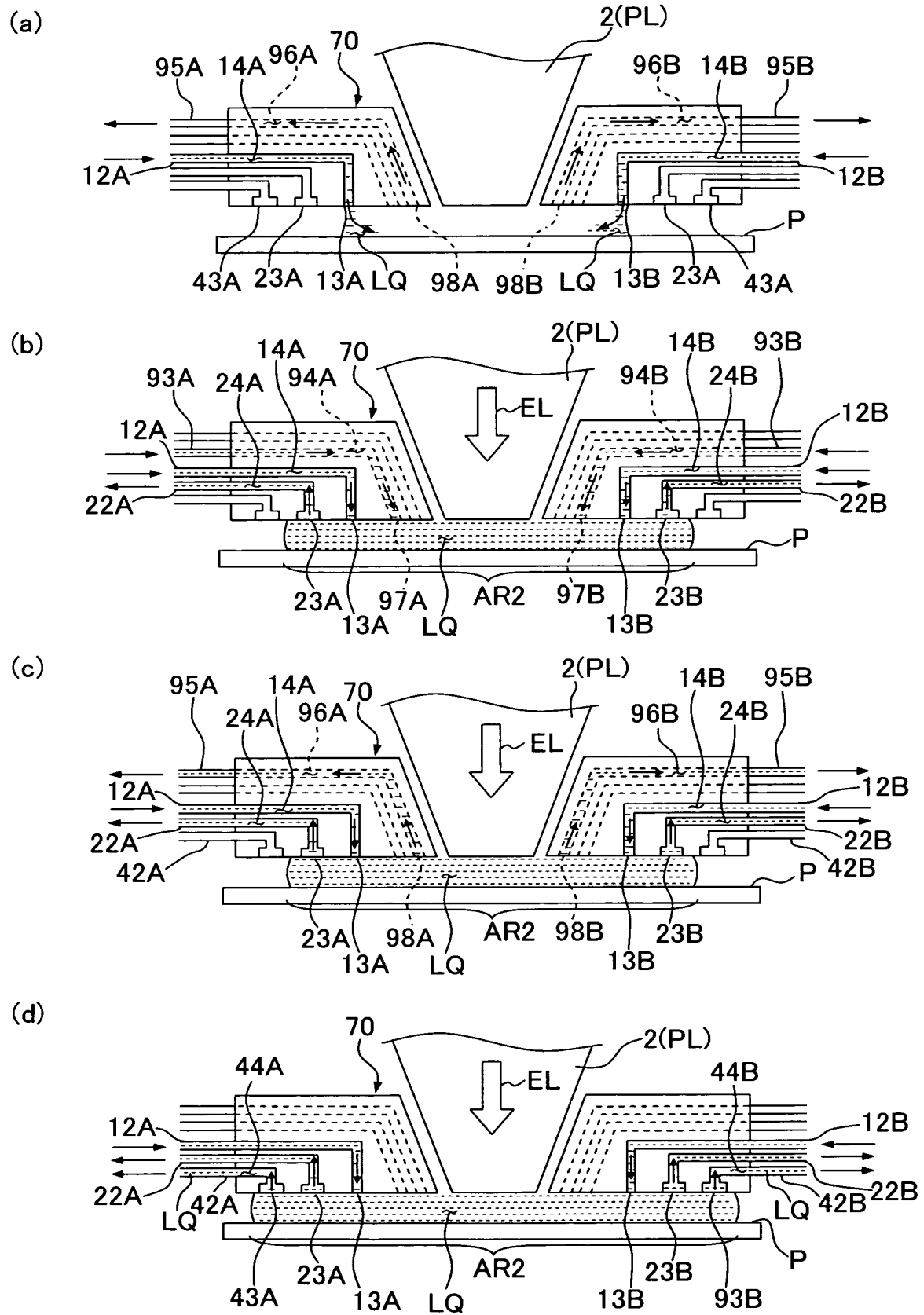


Fig. 13

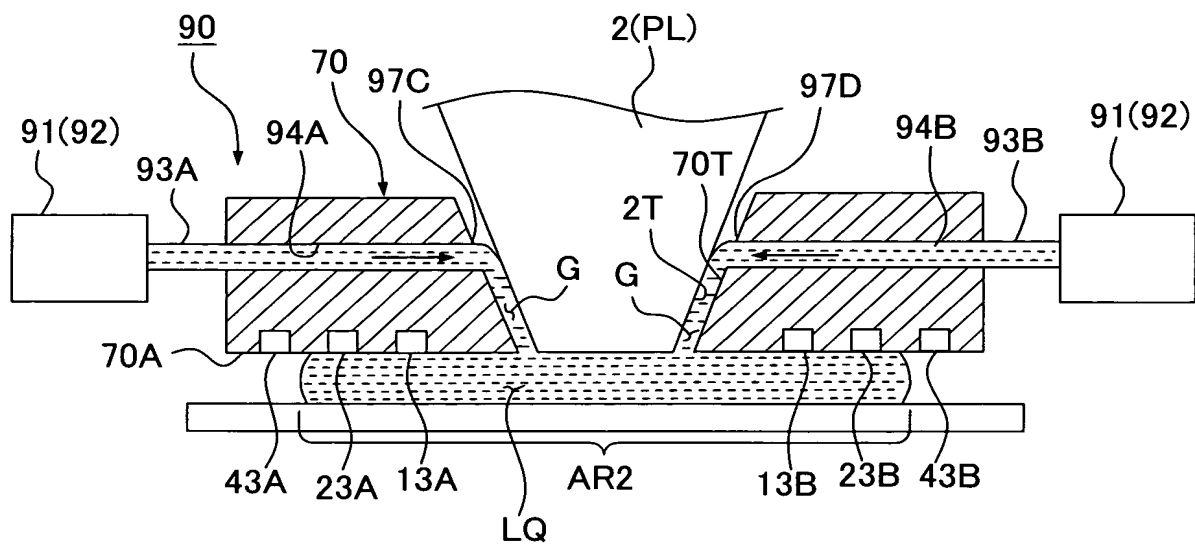


Fig. 14

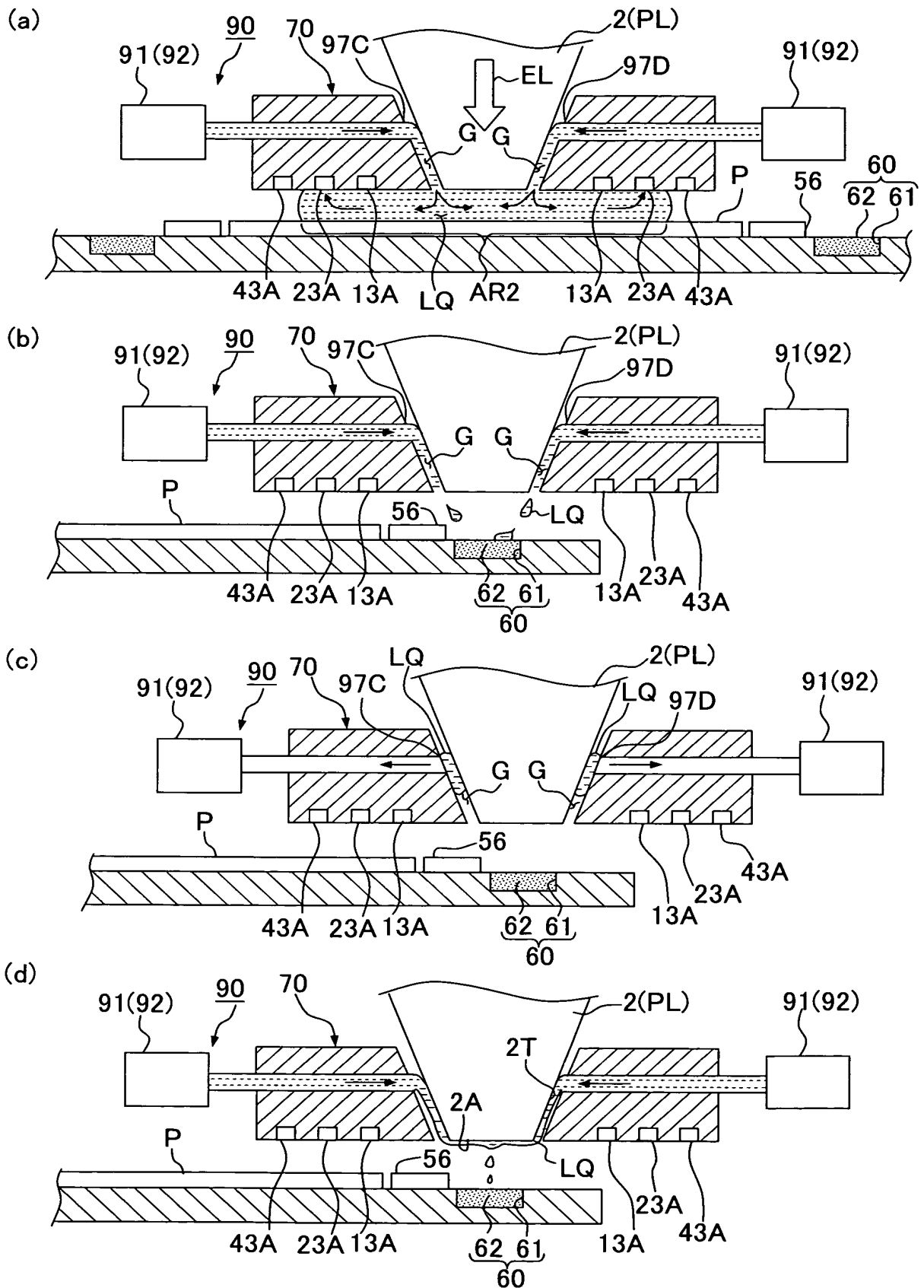


Fig. 15

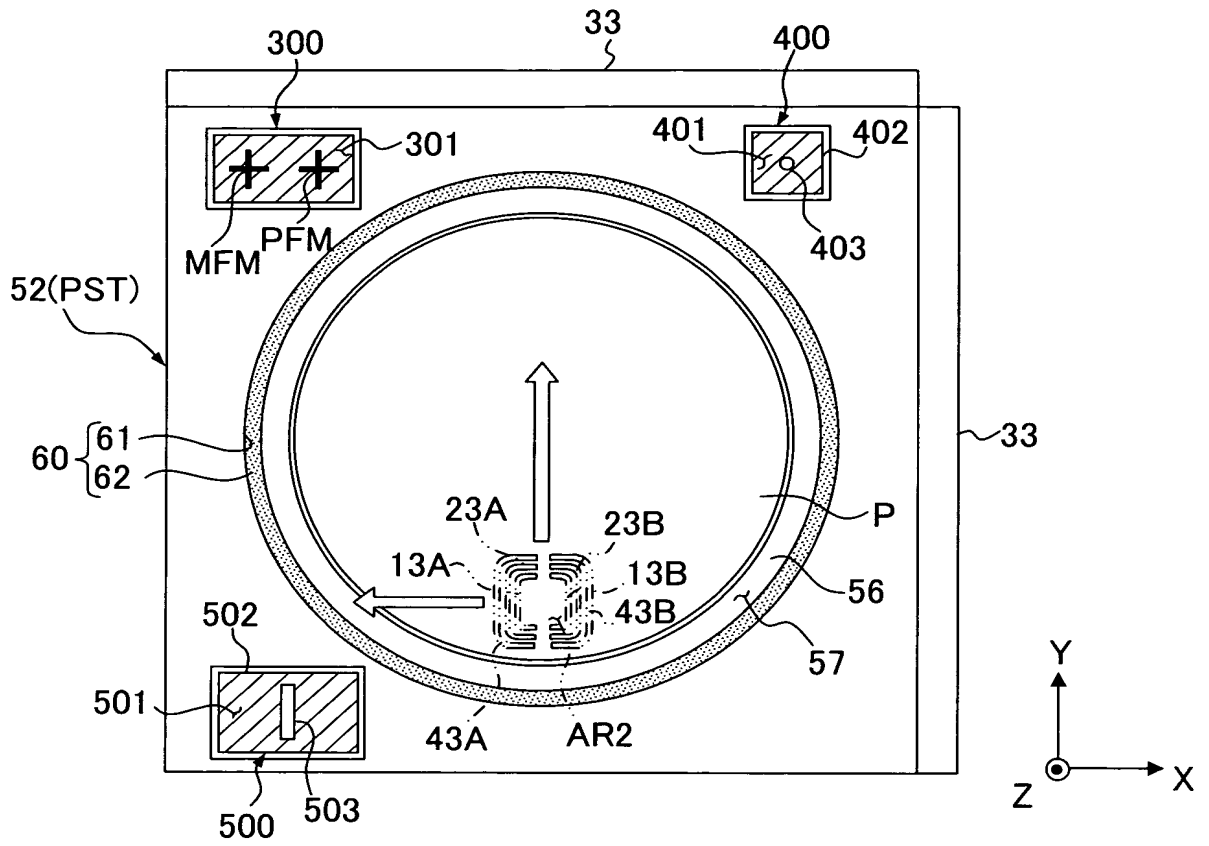


Fig. 16

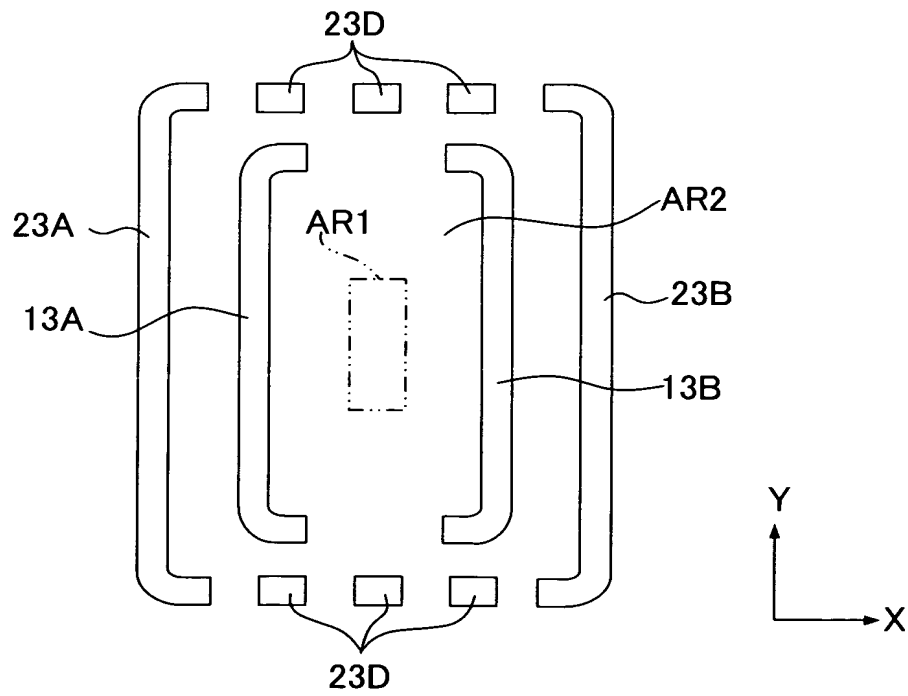


Fig. 17

